

1455

RECORD

This book is of more than  
ordinary value to the owner and  
a reward will be paid if it  
is forwarded to:

Reed C. Rollins  
22 Divinity Ave.  
Cambridge 38, Mass.

145





Tennessee

5501 *Sibara virginica* (L.) Rollins (6)  
mount field near Smiths Creek

1 mile west of Liberty, DeKalb County  
April 1, 1951

5502 *Leavenworthia uniflora* (Michx.) Britt. (8)

(pasture) - fls. white with yellow center  
of magenta, petals entire, sepals erect

1 mile west of Milton, Rutherford County

April 1

no other *Leavenworthia* seen

*L. uniflora* very abundant at location of 5503

5503 *Draba brachycarpa* Nutt. (4)

Open pasture, cedar glades, thin soil

2 miles west of Milton, Rutherford County

*L. uniflora* very abundant

5504 *Claytonia virginica* L.

Fls. magenta, crown sepals erect

as 5503

(3)

Det. Vernon Bates

5505 *Leavenworthia ~~uniflora~~ stylifera* Gray (4)

Fls. white to magenta with yellow center

sepals widely spreading <sup>center yellow</sup> 4 miles west

of Milton, middle of road

- 5506 *Lesquerella* ~~to~~ *stylosa* Gray (5)  
 petals white to magenta - occasional yellow -  
 sometimes in patches.  
 great quantities - 2 miles west of  
 Lacassas, Rutherford Co.
- 5507 *Lesquerella* <sup>*stoneensis*</sup> ~~*uniflora*, *maxima*~~ (6)  
 petals white, yellow centers, field about  
 1/2 mile from Stones River, near  
 Walterhill, Rutherford County  
 April 1  
 insects collected. most frequent was  
 middle size see like type
- 5508 *Lesquerella* <sup>*stoneensis*</sup> ~~*uniflora*, *maxima*~~ (8)  
 pastures and hilltop <sup>at</sup> near Stones  
 River, 4 1/2 miles <sup>west</sup> of Walterhill  
 Rutherford County.
- 5509 *Lesquerella* *uniflora* (Michx.) Britt. (4)  
 petals white, entire; sepals erect.  
 pasture, near ~~St. Creek~~ <sup>on road to Holysville</sup>, 4 miles  
 west of Smyrna, Rutherford County.  
 April 1, 1955

5510

*Viola tricolor* L.Fls. white to pale lavender, annual.  
Field near creek, 2 miles west

⑤

of S. Wayne on road to Nolensville  
Rutherford County - April 1

det. Vernon Bates

5511

*Lesquerella bicolor*

⑦

Limestone chip, open glade, 2 miles  
east of Nolensville on Rock Spring road,  
Williamson County.

April 1

5512

*Isaemurthis [aurica] exigua*

⑧

Fls. white, petals slightly emarginate,  
sepals erect but not tightly appressed  
mossy creek bank, as 5511

5513

*Lesquerella bicolor*

⑥

Old field near <sup>Arrington</sup> Arrington Creek, 5 1/2  
miles south of Nolensville, Williamson Co.April 1<sup>st</sup>No evidence of hybrids - plants isolated  
covering 10 acre field. Flooded during high  
water.



- 5514 *Lesquerella densipila* (2)  
 Roadside and old field, near the  
 Harpeth River, 6 miles northwest  
 of College Grove, ca. 1 mile above  
 the junction of Ashington Creek and  
 the Harpeth, Williamson Co.  
 April 1
- 5515 *Lesquerella bescurii* (3)  
 old field, flood plain Mill Creek,  
 6 miles north of Nolensville, Davidson County  
 April 2  
 No evidence of hybridization
- 5516 *Lesquerella bescurii* (4)  
 old field, flood plain Mill  
 Creek, 4 miles north of Nolensville,  
 Williamson County,  
 April 2  
 Insects + inflorescences taken
- 5517 *Lesquerella bescurii* (3)  
 Roadside, 1 mile north of Kirkland  
 Williamson County.  
 seems general - in small patches on roadbank  
 April 2  
 this location is 1/2 mile from 5518

5518 *Lesq. demissa* var. *scutellata* near ... (8)  
1/2 mile south of Kirkland, Williamson Co. April 2.  
This is 1/2 mile from 5517

5519 *Lesq. demissa* (6)  
open field, abundant, well up on  
high land about 1 mile from ...  
3 miles southeast of Kirkland, Williamson  
Co. April 2

5520 *Lesquerella [aurca] exigua* (5)  
petals white to pale lavender  
... with 6-22 ...  
glade pasture 4 miles south of  
Kirkland, Rutherford County  
April 2

5521 *Lesquerella tenuis* Gray (5)  
petals white to pale lavender, about same  
size & color as *aurca*  
as 5520

5522 *Lesquerella uniflora* (Michx.) Britt. (2)  
as 5520

I can't see results of any crossing  
between these three here

3523 *Heavenworthia stylis* Gray (6)  
petals yellow in occasional plants  
plant. open glade, 5 miles southeast of  
Kirkland, Butte Co. Cal.  
alt. 2400-2500 April 2

3524 *Heavenworthia [aurata]* (4)  
petals white or pale lavender  
alt. 23

3525 *Heavenworthia uniflora* (Nutt.) Britt. (3)  
alt. 3

There is no real evidence of hybridization  
between two plants, but other ones appear  
to be *uniflora* - some are *aurata*  
... If there  
is an occasional cross it is with  
*aurata*. The order of flowering here  
is *uniflora* - way ahead - no flowers  
before, then to *aurata*.

Tennessee

5526

*Lesq. densipila*

(8)

Roadside and pasture, floodplain of the  
Harpeh River 1 mile north of Fayetteville  
Rutherford County. April 3

5527

*Phacelia dubia* (L.) Froeh. Trelease

Fls. light to deep lavender  
as 5526

(8)

Det. Lincoln Constance

N = 5 det. by  
Mrs. Briggs

5528

*Leavenworthia uniflora* (Michx.) Britt. (12)

petals pure white, not margined.  
Cedar glade, 3 mi. southeast  
of Fayetteville, Rutherford County, April 3  
seems to be hybrid with *L. ...*?

5529

*Leav. [ancea] exigua*

(4)

petals off-white ...  
as 5528

specimens taken in a patch where  
plants appear to be hybrids

5530 *leav. stylosa* Gray  
petals <sup>off</sup> white to light lavender, <sup>emarginate;</sup> sepals  
spreading at anthesis  
rocky glade, 2 mi. south of Eagle Mills,  
Randolph Co. - April 3

I can't see that *stylosa* & *torulosa* are hybridizing  
although they grow intermingled all over the place.  
Fls. of *stylosa* are about twice the size of the ones  
picking these up at random, the small flowers are  
invariably associated with the 1-2 leaf pods.  
The distinctive broad podded *uniflora* is here  
and is even more diminutive in size than  
a single broad pod. I could not see it  
here although it was 1/2 mile away and  
is bound to be nearby

5531 *leav. torulosa* Gray (7)  
Fls. same color as 5530 - growing inter

5532 *leav. uniflora*  
Fls. small, white, with 5531 & 30

5533 *leav. torulosa* Gray (3)  
West bottom, 1 mile south of Unionville  
Bedford Co. April 3  
~~seen~~  
*uniflora* also seen here

5534

*Leav. stylosa*Wet bottom, 3 miles south of  
Unionville, Bedford County

April 3

*L. stylosa* also here.

5535

*Leav. exigua*

(8)

petals light lavender, emarginate

shallow soil of glade, 1 mile north

of North Fork of Duck River, southeast of

Unionville Bedford County,

5536

*Leav. uniflora* (Michx.)

mixed with above

also *Leav. stylosa* here.

no real evidence of hybridization

when mixed in field.

1 plant of *Lesq. densipila* here

5537

*Lesq. densipila*

(4)

Roadside, 2 miles north of North

Fork of Duck River, Bedford Co

April 3

Lespedeza

5538 *leav. torulosa* (4)  
old field, 1 mile south of Pottsville,  
about 11 miles north of <sup>3</sup>Waverly,  
Mauvey County. April 4<sup>th</sup>

5539 *leav. densipila* (6)  
silicles globose, slight tendency toward  
didymous. flood plain of the Duck  
River, about 10 miles north of  
Waverly, Mauvey County.  
April 4

5540 *leav. [aurea]* (4)  
open glade. 3 miles east of  
Waverly, Marshall County.  
- April 4  
with 5541

5541 *leav. uniflora* (3)  
as 5540  
no evidence of hybridization

5542 *beav. toulosa* Gray (7)  
open glade  
6 miles southeast of  
Marshall County, April 4  
Tennessee

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5543 *beav. stylosa*  
petals white to lavender with yellow center  
pasture in open glade  
4 miles west of Moulton, Lawrence  
County, Alabama  
April 5, 1955

5544 *beav. stylosa*  
petals white to light lavender  
all field and pasture, 7 miles west  
of Moulton, Lawrence  
County, Alabama

5545 *Cardamine bulbosa* (Schreb.) R. S. P.  
Fls. white, growing in crevices  
roadside, near Lawrence Lawrence  
Co., Alabama April



Alabama

5546 *Leas, stylosa*  
petals white to lavender, cedar grade,  
west of Bardsville,  
Lawrence Co., Alabama - April 5<sup>th</sup>

5547 *Lesquerella lyrata* (13)  
Fls. pure yellow, <sup>sepals</sup> divergent at anthesis  
globose, glabrous, basal leaves lyrate-  
pinnatifid  
roadside not far from cedar  
covered hill, 1 1/2 miles east of Newburg  
between Moulton and  
~~Franklin~~ County, April 5<sup>th</sup>  
↑ Franklin

N = 8  
det. by Mrs. Biggs

5548 *Lesquerella lyrata* (22)  
Fls. pure yellow, sepals spreading at  
anthesis  
7 miles east of Russellville,  
Franklin County. April 5<sup>th</sup>  
N = 8  
det. by Mrs. Biggs

Alabama

5549 *Heav stylosa*  
petals white to lavender, abundant  
in cedar glade 7 miles  
east of Russellville,  
Franklin County, Alabama  
April 5

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Louisiana

5550 *Corydalis micrantha* (Engelm.) Gray (8)  
*subsp. australis* (Chapm.) S. B. Oakes  
Sandy banks, 4 miles west of  
Mer Rouge, Morehouse Parish  
April 6

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Texas

5551 *Cardamine bulbosa* (Shreb.) B.S.P.  
Fls white, stems & leaves for  
bitter-tasting  
Wet creek bottom, 4 miles southwest  
of Bethany, Panola County  
April 7

5552 *phlox pilosa* L.  
Fls. purple, sandy roadside,  
⑤ ~~14 miles~~ east of Henderson, Rusk  
County April 7.

Det. Vernon Bates

5553 *Hypoxis hirsuta* (L.) Cor. yellow red green  
dry sandy soil, pine woods  
⑥ 8 miles northeast of Palestine, Anderson  
County April 7

5554 *Lesquerella gracilis* (Hook) Wats. ⑤  
grassy bank, 3 miles west of Taylor,  
Williamson County, April 7  
n = 6  
det. Witte

5555 *Lesquerella grandiflora* ⑨  
dry soil, 6 miles north  
Boonville County, April 9<sup>th</sup>

Texas

5556

*Lesq. cili. grandiflora*  
Sandy soil,  $\frac{1}{2}$  mile from the entrance  
south of Bulling, <sup>Palmer</sup> State Park,  
Kemper Co.

(9)

April 9  
termed but consistently producing a  
flower.

"

5557

*Lesq. sparsa* (Hook.) Wats  
Black heavy soil, roadside,  
8 miles east San Marcos, Caldwell  
County, April 9

(6)

5558

*Lesq. recurvata* (Engelm.) Watson  
Rocky hillside, 4 miles S.W.  
of San Marcos, Hays Co.  
April 9

(5)

Texas

5559 *Lesq. longimanis*  
Sandy ridge, De Witt Co.  
4 miles west of Comal  
April 9

5560 *Lesquerella densiflora* (Gray) Wats. (10)  
Sandy soil near the Guadalupe River,  
just west of Hochheim, between Gonzales  
and Cuero, De Witt County.  
April 10

N = 7 det by Mrs. Bigg

n = 7 det Witte

5561 *Lesquerella grandiflora* (Hook.) Wats. (7)  
Sandy soil, abundant, 4 miles  
north of Cuero, De Witt County,  
April 10<sup>th</sup>

n = 9  
Witte

Texas

5562 leg. *Lindheimeri* (Gray) Wats. (3)  
 silique. round to slightly elongated, heavy  
 black soil, 1 mile east of Tivoli,  
 Refugio County,  
 April 11

n = 6  
 Witte

5563 leg. *Lindheimeri* (Gray) Wats.  
 heavy clay soil, 3 miles northwest of  
 Tivoli, Refugio County. April 11<sup>5</sup>  
 sepals spreading, has a very shallow  
 limb slot, unguiculate

n = 6  
 Witte

5564 leg. *argyrea* (Gray) Wats. (6)  
 sepals spreading at anthesis, styles  
 very fragile, sandy bank at roadside,  
 9 miles northwest of Tivoli, Refugio Co.,  
 very shallow limb slot, unguiculate

n = 15?

Witte

5565 *Lesq. Lindheimeri*  
Heavy black soil, 3 miles south of  
15 mile Cabela Creek, Victoria Co.  
April 11

n = 6  
Witte

5566 *Lesq. arzyrea* (Gray) Wats. (8)  
perennial, sandy soil, 15 mile  
Cabela Creek, south of Victoria,  
Victoria County  
April 11

n = 7  
Witte

5567 *Lesq. grandiflora* (Hook.) Wats. (6)  
Sandy soil, 4 miles southeast of  
Flowerville, Wilson County  
April 11

5568 *Lesq. ~~arzyrea~~ scabra* (Wats.) Small (9)  
dry grassy roadside in ~~light~~ light soil,  
10 miles southeast of Boerne,  
Bexar County - April 11

5569 *Lesq. recurvata* (Engelm.) Wats. (4)  
as 5568

5570 *Lesq. densiflora* (Gray) Wats. (6)  
Sandy soil at roadside and on a rocky  
knoll at the edge of  
Fredricksburg, Kilmorygan County,  
April 11

5571 *Bilia rigidula* Benth. polyanthous?  
Fls. purple, foliage at edge  
rocky knoll.  
as 5570

5572 *Arabis petiolaris* Gray (11)  
Fls. lilac, annuals, rocky knoll  
17 miles north of Fredricksburg,  
Blanco County, April 12

5573 *Lesq. argyrea* (7)  
perennial, styles not so easily knocked  
off as material further south,  
as 5572



5574 *Lesq. densiflora* (Gray) Wats. (7)  
Very abundant in granite soil, 16 miles  
south of Belans, Belans County  
April 12  
growing with *L. grandiflora* & *L. argyrea*  
 $n = 7$   
det by Wille

5575 *Lesq. grandiflora* (Hook.) Wats.  
as 5574  
 $n = 8?$   
 $9?$

5576 *Lesq. argyrea* (Gray) Wats. (3)  
as 5574  
definite orange streaks at base of  
these not present in *L. grandiflora* and  
*L. densiflora*

5577 *Lepidium virginicum* L., var. *medium* (Greene)  
C. G. Hitchc.  
Prostrate in fields, abundant  
9 miles south of Belans, Belans County  
April 12

5578 *Descurainia pinnata* (Walt.) Britt.  
as 5577

Texas & Oklahoma

5579 *Lesq. gracilis* (Hook.) Wats.  
Roadside, 2 miles east of the  
Campasas River, west of Evans,  
Mills County, Texas  
April 12<sup>th</sup>

5580 *Lesq. gracilis*  
abundant in fields and on roadsides  
17 miles southwest of Paris, Delta  
County April 13<sup>th</sup>  
This species has been 1 mile east  
of Hugo, Okla.

5581 *Lesq. ~~gracilis~~ Lesq.*  
grassy roadside, 6 miles east  
of Hugo, Choctaw County, Oklahoma  
April 13<sup>th</sup>

5582 *Lesqueris ~~gracilis~~ aurea Torr.* (14)  
leaves thick & fleshy  
petals lemon yellow, stamens, very slightly  
emarginate, shallow soil near Rock Creek  
~~Town~~, 6 miles west of Fort Towson,  
Choctaw County.  
April 13<sup>th</sup> N = 22 Witt ←

5583 *Berg. angustifolia* Nutt.  
~~*Berg. longifolia*~~  
as 5582

5584 *Berg. gracilis* (Hook.) Wats.  
as 5582

(5)

This grows nearby in slightly deeper soil.

5585 *Berg. ~~longifolia~~ angustifolia* Nutt.  
abundant, under <sup>1</sup>ced area between  
highway and railroad, 5 miles west  
of Fort Towson, Choctaw County

April 13. The branching specimens taken  
here were on one small plant. Only one not  
the highest and most

5586 *Berg. gracilis*  
growing in deeper soil, as 5585  
plants here seemed to be more branched  
than elsewhere

We have now examined numerous seeds and there  
are at least 24. On some plants 25 and in one pl.

$n = 24!$  checked 5/27/58 there are 26.

Mississippi & Alabama

5587 *Rhododendron nudiflorum* (L.) Torrey  
with b. S. Brass  
Mixed woods, open hill slope  
(8) Fls. pink to white with pink tube. one from  
red tube and pink limb  
between Fulton and Clay, Itawamba  
County, Mississippi  
April 16<sup>th</sup>

5588 *Viola pedata* L.  
Fls. deep blue to violet, <sup>several</sup> stems several  
(6) from a thick vertically elongate rhizome  
sandy bank and woodland slope,  
6 miles northwest of Hamilton, Marion  
County, Alabama April 16

5589 *Houstonia pusilla* Schreft.  
Det. Vernon Bates  
(3) Fls. pale blue  
as 5588  
Det. Vernon Bates

5590 phlox  
Fls. magenta, as 5588

5591 *Hypoxis hirsuta* (L.) Cov.  
(3) Fls. yellow, as 5588

5592 *Silene virginica* L.  
Fls cardinal red, plants glandular  
as 5588

(5)

5593 *Gelsemium sempervirens* (L.) St. Hil.  
Scrambling shrubby vine, fls yellow  
sandstone area near creek, 9 miles  
northeast of Hamilton, Marion Co.,  
Alabama, April 16

(6)

Det. H. Rogers

5594 *Xanthoxia simplicissima* Marshall Rame  
low shrub near stream  
as 5593

(6)

Det. Vernon Bates

5595 *Houstonia missillia* Schopf.  
Fls deep purple  
as 5593

(6)

Det. Vernon Bates

5596 *Viola primulifolia* L.  
Fls. white

5597 *Oxalis violacea* W. (3) *Tradescantia*  
5597a Fls. magenta, pale / or 5597

Alabama

- 5598 *Leavenworthia stylosa* (4)  
Fls. off white to pale purple  
cedar glade, 1 mile south of  
Newburg, Franklin County  
April 15<sup>th</sup>  
with George R. Coley & L. J. Brass
- 5599 *Lesquerella hystera* Rollins (28)  
Cedar glade, roadside and field,  
7 miles east of Russellville, Franklin  
County, April 16  
near Richardson's Crossing  $n = 8$   
Witte
- 55100 *Leavenworthia stylosa* (8)  
abundant <sup>wet</sup> cedar glade, 1 mile  
south of Richardson's Crossing,  
about 8 miles east of Russellville,  
Franklin County,  
April 16
- 55101 *Leavenworthia stylosa* (8)  
Fls. pale purplish white with yellow  
eye, abundant, wet cedar glade,  
Debell, south of Russellville,  
Franklin County  
April 17

Alabama

55102 *Leavenworthia stylis*  
Cedar glade, 5 miles west of  
Tuscumbia, Colbert County  
April 17

55103 *Delphinium tricolor* Michx.  
Fls. white to faintly purplish; corolla  
obovate, fasciated.  
(8) open knoll near cedar glade  
as 55102

Det. Vernon Bates

55104 *Lithospermum carolinense* (Walt.) MacM.  
perennial from deep soil, fls. orange  
to yellowish orange, cedar glade;  
(5) Red Hill, 13 miles west of Tuscumbia  
Colbert County - April 17

Det. Vernon Bates

55105 *Draba dillenii* Jacq.  
Fls. yellow, petals with red stripes at  
base, perennial from slender underground  
stems as 55104  
(5)

55106 *Leavenworthia stylis* (6)  
Fls. white to slightly purplish  
as 55104

Tennessee

- 55107 *beeg. globosa* (Desv.) Wats.  
Open field and cedar glade, 5 miles  
west of Columbia, Maury Co.,  
April 18
- 55108 *beeg. densipila* (6)  
abundant, as 55107
- 55109 *beeg. tomentosa* (2)  
as 55107
- 55110 *beeg. besseyi* (6)  
Field near ~~Spring~~<sup>mill</sup> Creek,  
3 mi. north of Nolanville, Rt. 31A  
Williamson County  
April 19



Tennessee

55111 *Lesquerella bescuinii* (6)  
abundant in corn field near  
Arrington Creek, 2.5 mi south  
of Trice, Williamson Co.

not collected  
pictures  
April 19  $n=8$  letters  
Field is at least 10 acres

55112 *Lesq. densipila* (8)  
 $\frac{1}{2}$  mile north of Kirkland,  
Williamson County,  
April 19<sup>th</sup>  
pictures  
in notes  
abundant in old corn field,  
3.3 mi south of 55111

55113 *Leav. torulosa* Gray (7)  
cedar glade, Kirkland, Williamson  
County, April 19<sup>th</sup>

Tennessee

55114 *Lesq. densipila* (8)  
Field and streamside, Harpeth River,  
6 miles northwest of College Grove,  
Williamson County, April 19<sup>th</sup>

55115 *Lesq. densipila* x *lescurii*  
old field near the Harpeth River,  
just above bridge, 8 1/2 miles  
northwest of College Grove, Williamson  
Co. April 19.

55116 *Lesq. lescurii* (3)  
Field near the Arrington Creek, 1/2  
mile southeast of Arrington,  
Williamson County

55117 *Lesq. lescurii* (6)  
old field, just above point where  
railroad crosses Arrington creek,  
Williamson County, April 19<sup>th</sup>  
ca. 7 miles north of College Grove

Tennessee

55118

~~Lesq. lupinus~~ *Psoralea subacaulis* T. & G.

Fls deep purple, ~~abundant~~  
abundant in open cedar glade  
2 miles north of Murfreesboro,  
Rutherford County.

(6)

April 20

Det. Vernon Bates

55119

*Leavenworthia stylosa*

Fls white to pale purplish with  
yellow eyes

as 55118

55120

*Plantago purilla* Nutt.

basal leaves linear

as 55118 Det T. & Korotki

(8)

Tennessee

55121 *beas. stylosa*  
1 mile north of Murfreesboro,  
April 20<sup>th</sup>

55122 *beas. densipila* (11)  
open field, abundant, 4 miles  
southeast of Murfreesboro,  
Rutherford County, April 20  
with Hal DeSain

55123 *beas. stylosa* (7)  
Fls. white to very pale purplish  
open glade 1.5 miles northwest  
of Redsville, Rutherford County  
April 20  
with Hal DeSain

55124 *beas. densipila* (6)  
Field, near 3 West Fork of Stones  
River, 1.3 miles s.w. Bethel,  
Rutherford Co.  
April 20  $n=8$  with

with Hal DeSain

Tennessee

55125 *Lesq. Lescurii*  
 Roadside, 1 mile southwest of  
 Belle Meade, on state route 100  
 southwest of Nashville, Davidson  
 County - April 21

55126 *Lesquerella demissa* x *Lescurii*  
 This is the location of 55133  
 just below point where bridge of state  
 route 100 crosses the Harpeth River,  
 southwest of Nashville, Davidson Co.  
 This is a pasture of about 40 acres  
 and is on the flood plain of the river.  
 the population is extensive and covers  
 over about 3/4 of the pasture. The plants occur  
 in small patches not uniformly distributed.  
 April 21

fruits  
 present

55127 *Lesq. demissa* x *Lescurii*  
 Roadside and fields on both sides  
 near Harpeth River, 1/2 mile southwest  
 of Belle Meade Post Office, Davidson  
 County  
 April 21

Tennessee

55128 *Lesq. densipila* x *lescurii*  
bank of the Harpeth River, flood plain  
2 miles southeast of the junction  
of U.S. 70N and 70S Davidson  
County  
April 21

55129 *Lesq. densipila* x *lescurii*  
flood plain of the Harpeth River.  
3 miles west of the junction of U.S. 70N  
and 70S.  
April 21

55130 *Lesq. densipila* x *lescurii*  
Roadside and old cornfield,  
same locations as 53264 & 53128  
2.5 miles  
April 21 10 mi east of White Bluff  
Cheatam Co.

55131 *Lesq. densipila* x *lescurii*  
old cornfield, probably 2000 or  
more, all flood plain.  
plants much more scattered than  
previously.  
same station as 53130  
9 mi n.e. of White Bluff  
April 21 Cheatam Co.

Tennessee

- 55132 *Lesq. densipila* x *hassawia*  
 old cornfield, 1 mile below station  
 for 55131  
 April 24
- 55133 *Lesq. globosa* (Desv.) Wats. (4)  
 at the base of cliffs, near the  
 Cumberland River, 10 miles west of  
 Bordeaux, Davidson County.  
 April 27, 1955
- 55134 *Lesq. ~~densipila~~* - 1 plant found <sup>(1)</sup> west of Stone  
 River crossing, near old Jefferson Rutherford  
 Co. April 22
- 55135 *Iodanthus pinnatifidus* (Michx.) Stand. (1)  
 near the Stones River, at bow of the  
 river, ca. 2 miles below Jefferson,  
~~Davidson~~ Rutherford County  
 with Harold Bold.
- 55136 *Lesq. dens. var. maxima* (8)  
 petals white, yellow eye; petals  
 emarginate, field and roadside near  
 Stones River, ca. 2 miles below  
 Jefferson, Rutherford County -  
 with Harold Bold  
 1 plant found with lavender yellow petals.

55137

*Lesq. x maxima*

(5)

Stones River in the pasture -  
yard of a house, near the house  
at Jefferson Springs, Rutherford  
County, April 22  
with David Reed

55138

*Lesq. stonemissionis*

(9)

Field and stream bank, near  
east Fork of the Stones River, east  
of <sup>pro</sup> Jefferson Springs, Rutherford Co.  
with <sup>pro</sup> David Reed  
crosses the east fork of Stones River, Rutherford Co.

55139

*Lesq. perforata*

(8)

near Spring Creek, about 5 miles  
north of <sup>pro</sup> Jefferson Springs,  
with <sup>pro</sup> David Reed

55140

*Lesq. stylata* Gray

(4)

yellow, 3 miles west of  
Jefferson on U.S. 70 N., Wilson County  
abundant

55141

*Lesq. perforata*

(7)

fls. white, abundant in field and  
along road as 55140  
with <sup>pro</sup> David Reed



55142 *Lesq. densipila* X *lescurii* (3)  
near the Harpeth between Nashville &  
Franklin on U.S. 431, about 3 miles  
north of Franklin, Williamson County,  
April 23  
with Elsie Guentherman

55143 *Lesq. villosa* (Desv.) Wats. (20)  
perennial, abundant - open  
cedar glade on deeper soil  
4 miles west of Columbia, Murray  
County, April 23  
with Elsie Guentherman

55144 *Arenaria alabra* Michx.  
as 55143  
(4)  
Det. Vernon Bates

55145 *Samolus microcarpa* Andry. (3)  
old field as 55143

55146 *Lesq. densipila* (8)  
~~Lesq.~~  
abundant - as 55143  
n = 8 with

55147 ~~Orthocentrus~~ *phacelia purshii* Buckley  
~~serg. densipile~~ *phacelia purshii*  
as 55148

(5)

with ~~quarternan~~  
det. Lincoln Constance

55148 ~~Orthocentrus~~ *arvencis* b.  
as 55143

(5)

with ~~quarternan~~  
det. Vernon Bates

55149 *Leavenworthia torulosa* Gray (4)  
wet silviculture  
as 55143  
with ~~quarternan~~

55150 *L. globosa*  
near creek, 5 miles west of ~~Quarternan~~  
Manny Co April 23

at a location 7 miles west we looked  
at both *globosa* and ~~serripila~~

with Elise Quarternan

N=7 det. by Mrs. Briggs

Tennessee

- 55151 *Lesq. haccarii* (3)  
Flood plain of the Cumberland,  
3 miles west of Ashland City,  
Cheatham County - April 24  
~~with~~
- 55152 *Silene virginica* (L.) Rollins (4)  
extremely abundant in old corn field  
<sup>near</sup> Montgomery Bell Bridge across the  
Harpeth River, 6 miles west of  
Ashland City on State route 49  
April 24  
~~with~~
- 55153 *Rorippa sessiliflora* (Nutt.) Hitchc. (4)  
as 55152
- 55154 *Lesq. glabra*  
ledges and at the base of cliffs, near the  
Harpeth River, as 55152
- 55155 *Hypoxis hirsuta* (L.) Coville  
Bluff above Harpeth River, as 55152

(3)

Det. Vernon Bates

Tennessee

55156 *Lesq. incana* (3)

2nd ca. field, flood plain of the  
Cumberland River, 10 miles below  
Ashland City, Cheatham County  
April 20

55157 *Lesq. globosa* (Desv.) Wats. (3)

Cliff and talus, near Fox Bluff facing the  
Cumberland River, 15 miles below  
Ashland City, Cheatham

55158 *Aquilegia canadensis* L.

Fls.  
April 27

(7)

Det. Vernon Bates

55159 *Sherardia arvensis* L.

Fls. sessile, growing in shade  
3 miles northwest of Lawrence,  
Lawrence Co. Tenn.  
April 20

(6)

Det. Vernon Bates

55160 *Impatiens spathulata* Lam.

Fls. sessile, 3 miles northwest  
of Lawrence, Lawrence Co.  
April 20

(6)

Det. Vernon  
Bates

55161  
Asampled  
only

bas. *Sedum*  
as 55160

n = 15! checked 5/13/58

n = 14 [0.15  
with 0

*Sedum pulchellum* Michx.  
petals white, anthers purple

(6)

Det. Vernon Bates

55163

*Arenaria glabra* Michx.  
as 55160

(6)

Det. Vernon Bates

55164

*Plantago virginica* L.  
as 55160 Det. T. J. Rosatti

(5)

55165

*Anemone tabernaemontana* Walt.  
var. *gottlinger* Woodson

Fls. blue, growing in clump up to  
50 stems, rocky creek bottom, 3 miles  
N.E. of Waverne, Davidson County  
April 25<sup>th</sup>

(6)

Det. Vernon Bates

55166

herb. in meadow  
field near Stoner River, 4 miles northeast  
of Waverne, 12 miles southeast of  
Nashville, Davidson County. April 25<sup>th</sup>  
occasional yellowish tinge to individuals  
and very occasional quite yellow individuals

Tennessee

(3)

55167 *Icdanthus pinnatifidus* (Michx.) Steud.  
petals white, sepals magenta to light  
lavender, fls with two upper petals slightly  
longer than lower.  
as 55166 near Stones River

55168 *Phlox bifida* Beck  
Fls. purple, woolly at base, in  
limestone rock 5 miles north  
of Lawrence, Davidson County  
April 25

(9)

55169 *Dodecatheon meadia* L.  
Petals white, deep red <sup>blotches</sup> yellow at throat  
as 55168.

(6)

Det. Vernon Bates

55170 *... maxima*  
near Stones River, flood plain,  
near old town of Buckhorn, 7 miles  
north of Lawrence, Davidson Co.  
April 25

at Stone  
River!

55171 *Lesq. X var maxima*  
open pasture and grassy field,  
near Stones River, 11 miles east  
of Nashville, <sup>1 mile south of the junction of</sup> Davidson Co.  
April 25

yellow flowered types are quite frequent  
almost 1/3 of the plants in the grassy  
field were of some shade of yellow.  
They fl. vary from creamy yellow to  
bright yellow.

55172 *Lesq. X var maxima* (8)  
*variegata*  
Flood plain of Stones River, Davidson -  
Madison Co., ca. 9 miles east  
of Nashville, Davidson County, Tenn.  
Both yellowish and white flowered  
types present.  
got over cut by the river.

55173 *Ranunculus penicillatus* Poir.  
Wet pasture, near Nashville <sup>airport</sup>,  
3 miles southeast of Nashville,  
Davidson County, April 25<sup>th</sup>

(10)

55174

*Lesq. bicolor*

(8)

Flood plain of Stewart's Creek,  
1/2 mile east of Myrna  
Rutherford County, N.C. 26

N = 8 with

55175

(6)

Fls ~~usually~~ white - petals with  
white blackish or brownish flood plain  
near and

east of

Old Jefferson, just at mouth of  
Cott west fork of Jones River,  
Rutherford County, April 20

pastures

fields about 20 - 30 ft high  
17 plants in whole field found  
with some also in field of pasture  
in early open pasture

The yellow varied from a faint  
to golden yellow, but with no orange

This population  
appeared mostly to be  
like one of straight *L. stenensis*.



55176 *Geog. stonensis* ~~var. maxima~~ (12)  
Fls. all white, near east fork of  
Stones River, Walterhill, Rutherford  
Co. - April 26

55177 *Geog. stonensis* (6)  
pasture near east fork of Stones  
River, 1 mile southwest of Baccassas,  
Rutherford Co. - April 26  
nothing but white fls. seen.  
n = 8  
Witte

55178 *Ranunculus sardous* Crantz  
shallow soil near Buckmore Creek,  
(8) 3 miles northeast of Murphreesboro,  
Rutherford County, April 26  
Det. Vernon Bates

55179 *Delphinium cardinianum* Walt.  
Fls. white to pale lavender,  
(6) as 55178  
Det. Vernon Bates

55180 *Heavenworthia stylosa* (4)  
Fls. pale magenta  
as 55178

55181 *Scutellaria parvula* Michx.  
(4) Fls. purple - as 55178

Tennessee

55182 *Todanthus pinnatifidus* (Michx.) Steud. (4)  
Fls. white to pale lavender  
as 55178

55183 *Leav. tomentosa* Gray (9)  
Cedar glade like area, 3 miles southwest  
of Pulaski, Giles County. April 26<sup>th</sup>

Alabama

55184 *Schoenolirion croceum* (Michx.) A. Gray  
[*Zygadenus*]  
Fls. golden yellow, muddy soil in  
Cedar glade like area, 9 miles  
east of Russellville, Franklin Co.  
April 27 (5)  
Det. Vernon Bates

55185 *Psoralea subcaulis* T. & G.  
Fls purple, cedar glade <sup>like</sup> area  
as 55184 (5)  
Det. Vernon Bates

55186 *Leav. [stiposa] alabamica*  
old field (large plants) and glade area  
(small plants) as 55184

n=11 ! checked  
5/26/58

(n=11 Witt's)

Alabama

55187 *Lesq. lyrata* (3)  
bottom land of creek, 4 miles north  
of Richardsons Crossing, ~~ca~~ 9  
miles east of Russellville, Franklin  
Co., April 27

55188 *Lesquerella n. sp. lyrata* (11)  
Roadsides and old cotton field  
Richardsons Crossing, 7 miles  
east of Russellville on road  
to Newburg, Franklin Co.  
April 27  
n = 8  
Witte

55189 *Triodanis perfoliata* (W.) Nieuwl.  
Fls purple, near creek, 6 miles  
west of Newblon, Lawrence Co.,  
Alabama, April 27  
Det. Vernon Bate

55190 *Dratiola neglecta* Torrey  
annual, sep. white, tube of flowerish, with  
longitudinal dark stripes  
old cotton field, near Dawville,  
Morgan County - April 27  
Det. Vernon Bate

Alabama

55191 *Leas uniflora* (Michx.) Burt.  
as 55190

55192 *Leas ~~stolon~~ crassa* Rollins (8)  
fls. white to very pale lavender.  
old field, 1 mile east of Danville,  
Morgan County, April 27

*L. uniflora* also here but not  
collected

55193 *Euphorbia marcurialina* Michx. Euphorb  
wooded slope, cedar & magnolia  
(4) 5 miles west of Scottsboro, Jackson County  
April 27  
Det. Vernon Bates

55194 *Diaphanum tricornis* Michx.  
Fls. deep blue - as 55193

(5)

Det. Vernon Bates

55195 *Sedum pulchellum* Michx.  
Fls. pale pink, shallow soil on limestone  
as 55193

(5)

Det. Vernon Bates

55196 *scab. uniflora* (Michx.) Britt. (2)  
shallow soil - limestone rocks - as 55193

Seed packets of beaverwalthia

55297 *L. exigua*  
where railroad crosses. Arlington  
Creek, April 19, 1953

55298 *L. uniflora*  
5 mi southeast of Murfreesboro  
April 20  
 $n = 15$

55299 *L. exigua*  
1 mile no. Chapel Hill

55300 *L. uniflora*  
cedar glade, where railroad  
crosses Arlington Creek  
April 19

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R. C. Rollins + C. E. Word

55797

Notes on Leavenworthia sp.

1956

① L. fouleae - petals white to slightly lavender,  
emarginate; sepals spreading at anthesis; no other  
species seen at this point - Harpeth river bottom, at  
point where 31A crosses Harpeth southeast of Kirkland

② L. uniflora  
in typical cedar glades by itself. in woods  
southwest of Cassin's in Rutherford Co.



*Lesq. longifolia* Cory - notes on type at  
S. M. U.

looks much like *L. gracilis* except it is branched  
all the way up. Upper leaves are long as  
name implies and narrow (up to 2 mm.)  
trichomes appear to be smaller than *L. gracilis*  
and more fused.

pedicels are divaricate & straight.

siliques not quite sessile, but the gynophore  
not striking as in most *gracilis*

5-3119 *L. Gordonii* (Gray) Wats.  
8 miles east of Sweetwater,  
Nolan Co.

5-3120 *L. Gordonii* (Gray) Wats.  
Near the Salt Fork of the  
Brazos River, Seymour,  
Baylor County. m = 6

53112 *Z. Fenolleri* (Gray) Wats.  
4 miles west of Fort Stockton,  
Pecos County.

53113 *Z. Fenolleri*  
San Rock State College, Alpine,  
Brewster County

53114 *Z. Fenolleri*  
Roadside, Denver Mts., 20 miles  
south of Kent, Jeff. Davis Co.  
N=6

53115 *Z. Fenolleri*  
South end of the Guadalupe  
Mts., east of Signal Peak,  
U.S. Highway 50, Hudspeth Co.

53117 *Z. Fenolleri*  
1 mile east of Big Spring,  
Brewster County. n=6

53118 *Z. Gordonii* (Gray) Wats.  
Roadside, 4 miles east of  
Hatan, Mitchell Co.

- 5-3104 *L. argyrea* (Gray) Kuhn.  
On slopes + in shade. Same  
as 5-3103. N=18
- 5-3106 *L. tenuiflora*  
1/2 mile southeast of Fredericks-  
burg, Gillespie Co. n=7
- 5-3107 *L. gracilis* var. *arvulifera*  
13 miles west of Fredericksburg,  
Gillespie Co. n=6
- 5-3108 *L. recurvata*  
Same as 5-3107
- 5-3109 *L. gracilis*  
Roadside, 15 miles west of  
Fredericksburg, Gillespie  
Co. n=6
- 5-3110 *L. recurvata?*  
23 miles east of Sonora,  
Sutton Co. n=5
- 5-3111 *L. Gordani*  
Roadside, 14 miles east  
of Sheffield, Crockett Co.

- 5-373 *L. recurvata* (Engelm.) Wats.  
along Cibola Creek, near Selma,  
Tuscaloosa County.
- 5-377 *L. recurvata* (Engelm.) Wats.  
Small ravine, 1 mile northwest  
of New Brannfels, Cornal Co.
- 5-387 *L. recurvata* (Engelm.) Wats.  
8 miles west of New Brannfels,  
Cornal County. n=5.
- 5-3100 *L. gracilis* var. *resiliens*  
3 miles north of Fredericksburg,  
Tilgham Co. n=6
- 5-3101 *L. recurvata*  
with 5-3100. n=5
- 5-3102 *L. gracilis* var. *resiliens*  
On a drier site than 5-3100
- 5-3103 *L. laniflora*  
Near Emshanted Rock, about  
18 miles north of Fredericksburg,  
Blanco County. n=7

- 5361 *L. argyrea* (Gray) Wats.  
Near 15-Mile Coleta Creek,  
south of Victoria, Victoria  
County.  $n=6$
- 5-362 *L. argyrea* (Gray) Wats.  
2 miles northwest of the  
Guadalupe River, about 4  
miles northwest of Cuervo,  
Witt Co.
- 5-363 *L. grandiflora* (Hook.) Wats.  
11 miles northwest of  
Westhoff, Gonzales Co.  $N=9$
- 5-364 *L. grandiflora* (Hook.) Wats.  
1/2 mile west of Stockdale,  
Wilson County.  $N=9$
- 5-365 *L. grandiflora* (Hook.) Wats.  
3 miles west of La Vernia,  
Wilson County.
- 5-366 *L. Engelmannii* (Gray) Wats.  
Pebbly shores of the Cibola,  
near Belona, Guadalupe  
County.  $n=18$

- 5352 *L. grandiflora* (Hook.) Wats.  
 1/2 mile west of Brazos River,  
 3 miles ~~south~~ east of San Felipe,  
 Austin Co. N=9
- 5354 *L. Lindheimeri* (Gray) Wats.  
 5 miles north of Victoria on Texas  
 State Route 404, Victoria County.
- 5355 *L. Lindheimeri* (Gray) Wats.  
 5 miles west of Green Lake,  
 Refugio County.
- 5357 *L. Lindheimeri* (Gray) Wats.  
 3 miles northwest of Tivoli,  
 Refugio County.
- 5359 *L. argyrea* (Gray) Wats.  
 2 miles southeast of junction,  
 7 miles northwest of Tivoli,  
 Refugio County. N=12
- 5360 *L. Lindheimeri* (Gray) Wats.  
 3 miles south of 15-Mile Salto  
 creek, Victoria County. n=6

Texas

- 5-343 *Lesquerella gracilis*  
Black prairie land, 3 miles  
west of Terrell, Kaufman Co  
N=6; 2m=12
- 5-344 *L. gracilis* (Hook.) Wats.  
19 miles east of Dallas,  
Kaufman Co. N=6
- 5-345 *L. gracilis*  
6 miles south of Dallas, Dallas Co.
- 5-346 *L. Engelmannii* (Gray) Wats.  
4 miles north of Wapahacke,  
Ellis Co.
- 5-347 *L. gracilis*  
1 mile north of Wapahacke,  
Ellis Co. N=6
- 5-348 *L. gracilis* (Hook.) Wats.  
3 miles southeast of Wapahacke,  
Ellis Co.
- 5-349 *L. gracilis* (Hook.) Wats.  
2 miles south of Waco, Mc Lennan  
Co. N=6



E,

Handwritten notes in the right margin, including the letter 'J' and other illegible characters.

- 5-3140 *L. denispela*  
Duck River, To go with 5-321
- 5-3141 *L. denispela* var. *maxima*  
To go with 5-313
- 5-3142 *L. denispela* var. *maxima*  
Flood plain of Stoner River,  
Couchville, Davidson Co.
- 5-3143 *Leavenworthia stylosa*  
Glade, between Couchville and  
La Verne, 12 miles southeast of  
Couchville, Davidson Co.
- 5-3144 *Leavenworthia torulosa*  
Open glade, Kirkland, Williamson  
county.
- 5-3145 *Desmoullia perforata*  
Same as 5-306
- 5-3146 *Leavenworthia torulosa*  
Courtland, 1 mile west of Spring  
creek, about 5 miles east of  
Lanham, Wilson Co.

- 5-3133 *Lesquerella densipila* x *terrestris*  
 Flood plain of Harpeth River  
 where State Route 100 crosses,  
 southwest of Nashville,  
 Davidson Co.
- 5-3134 *Lesquerella terrestris*  
 Flood plain of South Harpeth  
 River, Tinton, Davidson Co.
- 5-3135 *Lesquerella*  
 Cornfield, near Harpeth River,  
 1 mile east of Franklin  
 Williamson County.
- 5-3136 *Lesquerella terrestris*  
 Same as 5-314
- 5-3137 *L. densipila*  
 Kirkland, same as 5-315
- 5-3138 *L. densipila*  
 Kirkland, Williamson County,  
 about 1/4 mile from 5-3137 -  
 open glade
- 5-3139 *L. densipila*  
 1 mi. no. Chapel Hill, to go with  
 5-319

5-3128

*Lesquerella*

Near Harpeth River bridge,  
10 miles east of White Bluff,  
Cheatman Co.

5-3129

*Lesquerella*

Near Harpeth River bridge,  
8 miles east of White Bluff,  
Cheatman Co.

5-3130

*Lesquerella*

Flood plain of Harpeth River,  
9 miles northeast of White  
Bluff, Cheatman County. N=8

5-3131

*Lesquerella Tescurii* (Gray) Wats.

above entrance of Harpeth R.,  
flood plain of Cumberland  
River, 3 miles west of Belland  
City, Cheatman County

5-3132

*Lesquerella globosa* (Dew.) Wats.

Near bluffs of Cumberland  
River, 9 miles west of  
Bordeaux, Davidson Co. N=7

5-325 *Lesquerella*  
Roadside + old cornfield near  
Harpeth River, 1 mile east  
of Franklin, Williamson Co.  
 $n=8$

5-325a *Lesquerella*  
as above.  $n=8$

5-326 *Lesquerella*  
Roadside + old cornfield, near  
Harpeth River, 10 miles east of  
White Bluff, Cheatham Co.  $n=8$

5-326a *Lesquerella*  
polyploid? —

5-327 *Lesquerella densipila* & *Lescurii*  
Roadside + field, near Harpeth  
River where U.S. 75 crosses,  
8 miles east of White Bluff,  
Cheatham County.

5-3127 *Lesquerella Lescurii*  
6 miles west of Nashville, Davidson  
Co.  $n=8$

- 5-316 *Leavenworthia torulosa* Gray  
Open glade, 1 mile north of  
Chapel Hill, Marshall Co.
- 5-317 *Leavenworthia uniflora* (Michx.) Britt.  
with 5-316
- 5-318 *Leavenworthia aurea* Torr.  
with 5-316
- 5-319 *Lesquerella densipila*  
Same as 5-316
- 5-321 *Lesquerella densipila*  
1/2 mile south of Duck River,  
5 miles south of Chapel Hill,  
Marshall Co. n=8
- 5-323 *Leavenworthia aurea* Torr.  
Old field, 6 miles north of  
Culleoka, Lewisburg to Columbia,  
Macon Co.
- 5-324 *Leavenworthia torulosa*  
with 5-323

- 5-310 *Leavenworthia aurea* Torr.  
cedar glade, 2 miles north of  
Green Hill, 17 miles northeast  
of Nashville, Wilson County
- 5-311 *Leavenworthia Tomlora* Gray  
Same as 5-310
- 5-312 *Lesquerella globosa*  
Near Cumberland River, 8 miles  
west of Bordeaux, on Tenn.  
Route 12, Davidson Co. n=7
- 5-313 *Lesquerella densipila*  
var. *maxima*  
12 miles southeast of  
Nashville, Davidson Co. n=8
- 5-314 *Lesquerella Tescurii*  
Roadside, near tributary of  
Harpeeth River, 11 miles east  
of Franklin, Williamson Co.
- 5-315 *Lesquerella densipila*  
Kirkland, between Truane +  
College Grove, Williamson  
county. n=8



Tennessee

- 5-303 *Lesquerella stylosa* Gray  
Thin soil of Cedar barren,  
10 miles south of Hartsville,  
Wilson County.
- 5-304 *Lesquerella perforata*  
near Spring Creek, 6 miles north  
of Lebanon, Wilson Co. n=8
- 5-306 *Lesquerella perforata* Rollins  
pasture near Barton Creek, 1/2  
mile west of Lebanon, Wilson  
County. n=8
- 5-308 *Lesquerella stylosa* Gray  
Shallow soil of Cedar glade, 8  
miles northwest of Lebanon,  
Wilson County.
- 5-309 *Lesquerella tuncivii* (Gray) S. Wats.  
Thin soil of open cedar glade, 2  
miles north of Green Hill, 17  
miles northeast of Nashville,  
Wilson County.

Spitzer reading Austin April 5 42147

Spdt " Dallas April 14 43083

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Date	meals	Cash	Place
22	4.35	6.00	Nashville
23	4.50	6.00	"
24	4.00	5.00	Murfreesboro
25	4.30	5.00	Kelam
26	4.65	5.00	Jefferson, Va.
27	4.25	5.50	Chattanooga, Tenn.
28	4.20	5.00	Chattanooga, Tenn.
29	4.05	5.00	Elkton, Md.
30	2.60		

Approximate Reading in W. Va. April 30<sup>th</sup>

46 #12

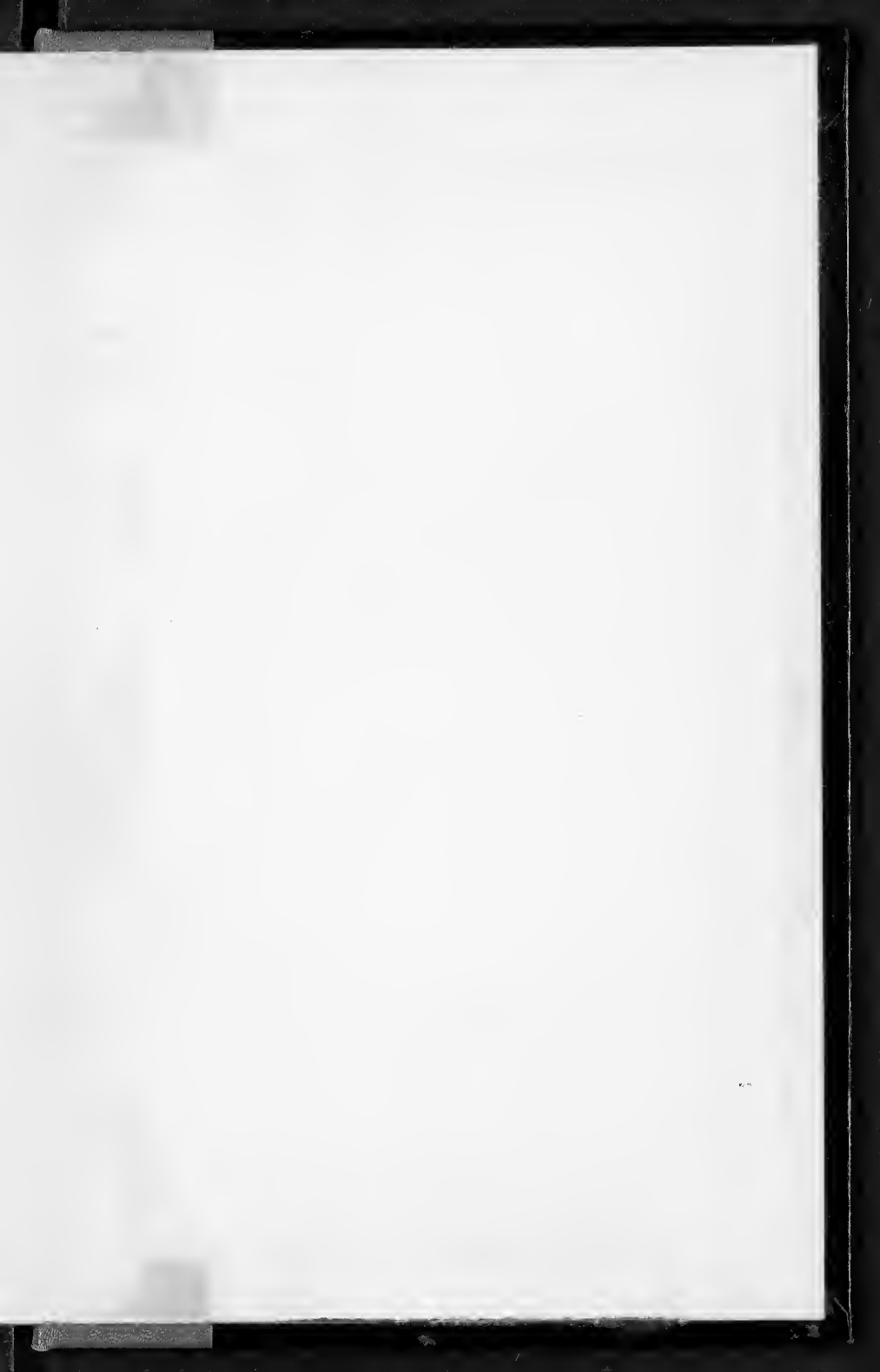
Speeds etc. Reading - Wallesey - March 21

39/03

March	Miles	Cost	Notes
30	4.45	6.00	Front Royal
31	4.10	5.50	
April 1	4.60	6.50	Shells
2	4.25	5.20	
3	4.85	6.00	Nashville
4	4.20	5.50	Shells
5	5.00	5.00	
6	4.25	5.50	
7	4.25	5.00	Shells
8	4.00	5.00	"
9	<del>4.80</del>	5.00	original
	4.80		
10	4.20	5.00	Post Office
11		1.35	postage
	4.50	5.00	F. Hutchinson
12	3.75	5.00	Dallas
13	4.65	5.00	Shells, Vela
14	4.20	5.50	Shells +
15	4.60	5.00	
16	4.25	5.00	Shells
17	4.30	5.00	Fuse, W. S.
18	4.45	5.00	Tuscumbia, Ala
19	4.10	6.00	
20	5.00	5.00	
21	4.65	6.00	









WERNER LANG  
U.S.A.